

CLAIM SUMMARY DOCUMENT

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————— CLAIMS:

1. (Currently Amended) ~~Solid bowl helical conveyor centrifuge, comprising~~
————— ~~a rotatable drum (3) having a particularly horizontally oriented axis of rotation,~~
————— ~~a rotatable worm (5) arranged in the drum (3),~~
————— ~~at least one discharge opening (17) oriented at an angle with respect to the axis of~~
~~rotation of the solid bowl helical conveyor centrifuge, for discharging solids from the drum~~
~~(3) in the shell of the drum (3),~~
————— ~~an adjusting device being assigned to the at least one discharge opening (17), by~~
~~means of which adjusting device the outlet cross-section for the solids can be changed,~~
————— ~~in addition, the adjusting device having a movable adjusting disk (25) arranged in~~
~~the drum (3) as an extension of the worm (5), which adjusting disk (25) is non-rotatably~~
~~connected with the drum (3), the worm (5) or the worm body (29),~~
~~characterized in that~~
————— ~~at least one or more connecting rod(s) (27) is/are fastened to the adjusting disk~~
~~(25).~~ A solid bowl helical conveyor centrifuge, comprising:
 a rotatable drum having a horizontally-oriented axis of rotation;
 a rotatable screw arranged in the rotatable drum;
 at least one discharge opening oriented at an angle with respect to the
horizontally-oriented axis of rotation, the at least one discharge opening configured to
discharge solids from the rotatable drum;
 an adjusting device assigned to the at least one discharge opening, by which
adjusting device an outlet cross-section of the at least one discharge opening is changeable
and the adjusting device includes a movable adjusting disk arranged in the rotatable drum as
an extension of the rotatable screw, and which movable adjusting disk is non-rotatably
connected with one or more of the following: a) the rotatable drum, b) the rotatable screw,
and c) a screw body; and

at least one connecting rod fastened to the movable adjusting disk.

2. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to Claim 1, ~~wherein characterized in that the~~ at least one discharge openings (17) in ~~the drum shell extend~~ opening extends radially to ~~the~~ toward an outside of the drum.

3. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that the~~ Claim 1, wherein an end of the at least one connecting rod (27) facing away from the movable adjusting disk (25) is one of ~~directly or~~ and indirectly connected with one of a rod (35) ~~or~~ and a pipe which centrically penetrates an inlet pipe (7) in the horizontally-oriented axis of rotation of the solid bowl helical conveyor centrifuge.

4. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the at least one ~~or more~~ connecting rods (27) ~~are~~ rod is guided through the ~~worm~~ (5) rotatable screw from the ~~an~~ end of the rotatable drum (3) situated opposite a drive of the helical conveyor centrifuge.

5. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that the~~ Claim 1, wherein an end of the at least one connecting rod (27) facing away from the movable adjusting disk (25) is fastened to a ring (31) which is disposed by ~~means of~~ a bearing (33) on a stationary connecting rod (35) which centrically penetrates an inlet pipe (7) in the horizontally-oriented axis of rotation of the solid bowl helical conveyor centrifuge.

6. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~the one the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) is oriented radially with respect to the horizontally-oriented axis of rotation of the solid bowl helical conveyor centrifuge.

7. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) is arranged as an axial extension of an end of the rotatable drum end in a discharge chamber (15) axially adjoining the worm screw.

8. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) is axially displaceable in the rotatable drum (3).

9. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) has a configured to be swivellable construction.

10. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) is swivellably linked to the an axial worm end of the screw.

11. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the at least one connecting rod includes three connecting rods (27) are fastened to the adjusting disk (25).

12. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the at least one connecting rods (27) penetrate the rod penetrates an axial end of the worm at least one of the following: a) the screw body (29) or and b) a worm screw drive shaft (41) of the worm (5) screw into a chamber (28) in the worm screw body (29).

13. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the at least one or more connecting rods (27) are rod is guided from the a cylindrical end of the rotatable drum (3) through the worm (5) screw.

14. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 12, wherein the chamber (28) adjoins the distributor.

15. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) can be adjusted is adjustable by means of an electromotively operable adjusting unit.

16. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable adjusting disk (25) can be adjusted is adjustable by means of ~~at least one of the following: a) a~~ an hydraulic device or and b) a pneumatic device.

17. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 5, wherein the stationary connecting rod ~~can be~~ is operated by means of the at least one of the following: a) an electromotively operable adjusting unit or the and b) an hydraulic device.

18. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 5, wherein the ring (31) is constructed as a sliding element (39) which can be operated operable by a fluid.

19. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein a pipe (37) penetrating the penetrates an inlet pipe (7) for the centrifuged material to be centrifuged and leads into a chamber (28) used as a feeding and removing device for the operating fluid.

20. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 1, wherein the movable

adjusting disk ~~has~~ includes recesses.

21. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 19, wherein the inlet pipe (7) ~~does not rotate along with the worm~~ (5) screw.

22. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized in that~~ Claim 19, wherein the inlet pipe (7) rotates along with the ~~worm~~ (5) screw.

23. (Cancelled)

24. (Currently Amended) ~~Solid~~ The solid bowl helical conveyor centrifuge according to ~~one of the preceding claims, characterized by~~ Claim 1, further including a computer-controlled control device for controlling the movable adjusting disk, ~~particularly as a function of the dry substance content of the solids.~~

25. (New) The solid bowl helical conveyor centrifuge of Claim 11, wherein the three connecting rods penetrate an axial end of at least one of a) a screw body and b) a screw drive shaft of the screw into a diameter in the screw body.

26. (New) The solid bowl helical conveyor centrifuge of Claim 24, wherein the computer-controller control device controls the movable adjusting disk as a function of a dry substance content of the solids.